

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

CONTRACTOR	CONTRACT NO./TASK NO.	TASK NO.	AMENDMENT	JOB ORDER NUMBER	APPROP. FY
QSS Group, Inc.	NAS5-99124	316		584-839-06-51-89	00

TASK TITLE: (NTE 80 characters; include Project name)

System Engineering for Nexus Ground System

APPROVALS: (Type or print name and sign)

ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)		DATE	ORG CODE	MAIL CODE	PHONE
Jane Steck <i>Jane A. Steck</i>		7/17/00	584	584	301-286-6985
BRANCH HEAD		DATE	CODE		PHONE
Barbara Pfarr <i>B. Pfarr</i>		7/17/00	584	584	301-286-2058
CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)		DATE	CODE		PHONE
Robert S. Lebar, Jr. <i>Robert S. Lebar</i>		7/17/00	560		301-286-6588
FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE? (IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)		CONTRACTING OFFICER'S QUALITY REP.		DESIGNATED FAM:	
[X] NO [ ] YES					

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

C.O. Requested Quote on:  
Date: JUL 19 2000

Contractor will develop specification or statement of work under this task for a future procurement.		[X] NO [ ] YES
Flight hardware will be shipped to GSFC for testing prior to final delivery.		[ ] NO [ ] YES [X] N/A
Government Furnished Property/Facilities:	[X] NO [ ] YES - SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)	
Onsite Performance:	[ ] NO [X] YES If yes: [x] TOTAL [ ] PARTIAL	If partial, indicate onsite work in SOW by asterisk (*)
Surveillance Plan Attached:	[X] NO [ ] YES	
Highlighted Contract Clauses:		

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be 8/1/00.

**INCENTIVE FEE STRUCTURE**

(check one)

(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	<u>X</u> No. 1	No. 2	No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

The target cost of this task order is \$ 51,658.  
 The target fee of this task order is \$ 3,313.  
 The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 54,971.  
 The maximum fee is \$ 4,842.  
 The minimum fee is \$0.

AUTHORIZED SIGNATURE:	
THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"	
<i>Theresa J. Becker</i> SIGNATURE OF CONTRACTING OFFICER	8/16/00 DATE
THERESA J. BECKER TYPED NAME OF CONTRACTING OFFICER	

CONTRACTOR'S ACCEPTANCE:	
AUTHORIZED SIGNATURE	DATE

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QSS Group, Inc.	NAS5- 99124	316	

Applicable paragraphs from contract Statement of Work:

**STATEMENT OF WORK:** (Continue on blank paper if additional space is required)

See page 3.

**PERFORMANCE SPECIFICATIONS:**

See page 4.

**APPLICABLE DOCUMENTS:**

None.

**TASK END DATE:** 12/30/2000

**MILESTONES/DELIVERABLES AND DATES:**

See page 4.

**PERFORMANCE STANDARDS:**

Schedule: On-time delivery/completion of the deliverables/milestones

Technical: ATR's acceptance of the deliverables

**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

Jane Steck, building 23, room W201

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**REQUEST FOR TASK PLAN / TASK ORDER****Contract NAS5-99124****Task #: 316**

This task is a follow-on to Task 262. Uninterrupted transition is required.

**STATEMENT OF WORK****Task Description:**

The contractor shall perform the following activities:

1. Continue a study with Code 584 in partnership with Code 582, Code 583, NGST project and STSci personnel to identify and clarify key operations concepts, capabilities and requirements for the I&T and Ground Control systems for the Nexus mission. Performance of this study will include at least:
  - Refinement of design architecture and operational concept for Nexus
  - Review and monitoring of existing architecture and operational concept for NGST
2. The contractor shall deliver a Nexus Operations Concept document resulting from the above-described activities. Other deliverables may be mutually determined as the result of these activities.

In order to perform these activities, the contractor shall work cooperatively with civil servants supporting this work, as well as with other contractors to ensure complementary and non-duplicative achievement of goals.

The GSFC Code 584 Real-Time Software Engineering Lab (Building 23, Room E120) is available for technology prototyping, evaluation and demonstration.

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## **REQUEST FOR TASK PLAN / TASK ORDER**

Contract NAS5-99124

Task #: **316**

### **PERFORMANCE SPECIFICATIONS**

The Nexus Operations Concept document shall include the following contents at a minimum:

1. Introduction, Scope and a Summary of analysis activities
2. Nexus Mission description
3. Ground System concept
4. Ground System architecture
5. Functional architecture
6. Ground System selection process
7. Ground System functional requirements
8. Reference list of Nexus/NGST and other documents related to
9. Glossary

### **Qualitative and Quantitative Performance Metrics:**

The following lists both quantitative and qualitative metrics that will be used to measure the technical performance of all of the activities described in this SOW. Qualitative metrics are used where performance is event-driven and relies on interaction with the user community, coordination with others, and other associated factors.

<b>Evaluation Item</b>	<b>Metrics</b>
Management	<ul style="list-style-type: none"> <li>• Accomplishment of objectives</li> <li>• Clear, incremental progress</li> <li>• Responsiveness to issues</li> <li>• Coordination with and good working relationship with task lead, the Science Institute and other designated points of contact within the project</li> <li>• Successful verbal and written communications with other teams with varied technical points of view</li> <li>• Flexibility within scope of the contract</li> <li>• Schedule adherence</li> </ul>
Technical Objectives	<ul style="list-style-type: none"> <li>• Use of recent and relevant NASA/GSFC, Science Institute and other project mission data</li> </ul>
Deliverables	<ul style="list-style-type: none"> <li>• Technical accuracy</li> <li>• Use of graphics and/or tables to illustrate point</li> <li>• Clear/concise message</li> </ul>
Costs	<ul style="list-style-type: none"> <li>• Within 115% of target cost</li> </ul>

### **MILESTONES/DELIVERABLES AND DATES:**

<b>Milestone</b>	<b>Delivery / Completion Date</b>
Nexus Operations Concept Drafts	2-week centers beginning 8/3/2000
Final Operations Concept	12/7/2000
Technical Progress Report	15 <sup>th</sup> of each month